

Heat-transfer of .....

S/153/61/004/003/008/008  
E073/E335

investigated fin spacings. Transverse spiral fins produced on the tube wall itself by rolling enables increasing its surface by a factor of 2.5. Ye. Ye. Slapyan (Ref. 4 - Processes of Separation, Condensation and Producing a Vacuum in Refrigeration equipment, Mashgiz, 1953, p. 75) investigated the influence of producing such fins by rolling on the increase in the intensity of the heat-transfer during condensation of steam in a horizontal tube. The authors of this paper used a test rig consisting of an electric furnace in which the air was heated to 70 - 90 °C. This air was compressed by an air-blower in the space between the tubes of a vertical, finned, heat-exchanger. Water was made to flow along the tubes; the temperature of the air and the water at the inlet and outlet openings of the heat-exchanger was determined by mercury thermometers with scale divisions of 0.1 °C. The air consumption was measured by a propellor-type anemometer; the water consumption was determined by the weight method. The tubes of the heat-exchanger were distributed in chessboard fashion. The jacket of the heat-exchanger was made of perspex

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to permit visual observation. The temperature of the finned tube walls was determined by thermocouples which were connected to a mirror galvanometer with a horizontal scale. The temperature could be measured with an accuracy of 0.1 °C. The pressure drop of the air in the heat-exchanger was measured by means of a draft gauge (alcohol being the operating fluid). The heat-exchanger contained tubes of 8.93 mm internal diameter and 13.9 mm external diameter with a fin height of 1.55 mm and fin spacing of 2 mm. The tubes were fitted with spiral transverse fins, produced by deforming the tube wall itself, thus increasing the surface by a factor of 3-4 without welding or brazing. The results are plotted in Figs. A and B. The following conclusions were arrived at: the conditions of heat-exchange were improved, in the case of the gas flowing in the longitudinal direction of the tubes, by providing transverse fins. The transverse fins produced by deformation of the tube wall itself permitted increasing the tube surface on the average by a factor of 2-3, without increasing the dimensions of the equipment. The gas-to-tube heat-transfer

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coefficient for finned tubes was 2-3 times as high as for smooth tubes of the same diameter.

[Abstracter's note: this is an abridged translation - table not included.]

There are 2 figures, 1 table and 4 references: 3 Soviet and 1 non-Soviet.

**ASSOCIATION:** Kafedra obshchey khimicheskoy tekhnologii,  
Tomskiy politekhnicheskii institut im.  
S.M. Kirova (Chair of General Chemical Technology,  
Tomsk Polytechnical Institute im. S.M. Kirov)

**SUBMITTED:** June 23, 1959

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L 17127-63

EPR/EPA(b)/EPF(c)/EWT(1)/EPF(n)-2/EWT(m)/BDS AEDC/AFFTC/  
ASD/AFMDC/APGC/IJP(C)/SSD Ps-4/Pd-4/Pr-4/Pu-4 WH/DJ

ACCESSION NR: AP3000683

S/0096/63/000/006/0067/0070  
83AUTHORS: Norkin, N. N. (Deceased, Candidate of technical sciences); Chashchin, I.P.  
(Engineer)TITLE: Heat transfer and hydraulic resistance to the longitudinal flow of fluid  
around relatively short ribbed tubes

SOURCE: Teploenergetika, no. 6, 1963, 67-70

TOPIC TAGS: heat transfer, hydraulic resistance, ribbed tube, length/diameter  
ratio

ABSTRACT: Experiments were conducted on relatively short ribbed steel tubes to determine heat transfer and hydraulic resistance of the ribbed surfaces. Figure 1 (see enclosures) represents the experimental apparatus. Water, solar oil, and transformer oil were used. Tubes with OD 20.8 mm and ID 15.3 mm with pitch of ribs 1.85 mm and with height of ribs 1.1 mm proved most desirable. These tubes were used in bundles of 19; pitch of tube plates was 26.5 mm, coefficient of ribbing was 1.84, surface per running meter was 0.12 m<sup>2</sup>, and the weight was 9.8 kg/m<sup>2</sup>. Sets of other type tubing, however, were found quite efficient. The length of the tubes affects the heat transfer coefficient. Thus, when the ratio of the length/diameter of the

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ACCESSION NR: AP3000683

tube was decreased from 58 to 28, the coefficient increased by 60%. The comparison of the efficiencies showed that best results are obtained when heat-transferring surfaces have an area more than 1.38 times as great as those of plain tubes. Orig. art. has: 5 figures, 4 formulas, and 1 table.

ASSOCIATION: Tomskiy politekhnicheskoy institut (Tomsk Polytechnic Institute)

SUBMITTED: 00

DATE ACQ: 21Jun63

ENCL: 01

SUB CODE: ML, PH

NO REF SOV: 004

OTHER: 001

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ACCESSION NR: AP3000683

ENCLOSURE: 1

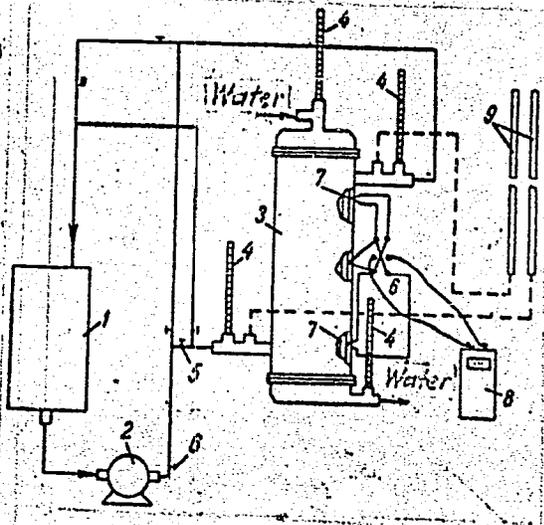


Fig. 1. Experimental apparatus. 1- tank; 2- pump; 3- "shell and tube" heat exchanger; 4- thermometer; 5- regulating valve; 6- change-over switch; 7- thermocouple; 8- mirror galvanometer; 9- piezometer

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CHASHCHIN, I.P.; NORKIN, N.N.

Heat exchange on finned tube surfaces with low fins. Izv.vys.ucheb.  
zav.;khim.i khim.tekh. 6 no.5:881-883 '63. (MIRA 16:12)

1. Tomskiy politekhnicheskii institut imeni Kirova, kafedra obshchey  
khimicheskoy tekhnologii i apparatury.

CHASHCHIN, I.P., inzh.

Effect of the height and step of the fins on heat exchange and hydraulic resistance. Teploenergetika 11 no.10:59-61 0 '64.  
(MIRA 18:3)

1. Tomskiy politekhnicheskiy institut.

CHASHCHIN, I.P.

Effect of the height and pitch of fins on heat exchange  
and hydraulic resistances in "tube within a tube" type  
heat exchangers. Izv.vys.ucheb.zav.; khim.i khim.tekh. 8  
no.4:674-679 '65. (MIRA 18:11)

1. Tomskiy politekhnicheskiy institut, kafedra obshchey  
khimicheskoy tekhnologii i apparatury.

CHASHCHIN, M. A.

USSR / Zooparasitology. General Problems. G-1

Abs Jour: Ref Zhur-Biol., No 20, 1958, 91012

Author : ~~Chashchin, M. A.~~

Inst : Kirov Agricultural Institute

Title : Dynamics of the parasitic fauna in the pike in  
Relation to the season and type of reservoir  
in Vyatka River Basin.

Orig Pub: Tr. Kirovskiy s. kh. in-ta, 1957, 12, No 24,  
175-180

Abstract: A study has been made of the parasitic fauna  
in the pike (P) during all seasons of the year,  
in reservoirs of both circulating and semicir-  
culating types in 1938 - 1950. 4 species of  
mucous sporozoa were found, one species each  
of monogenetic trematodes, cestodes, leeches,  
crustaceans and mollusks, 4 digenetic trematodes.

Card 1/2

CHASHCHIN, M.A.

Low-temperature treatment of instrument of instruments and workpieces.  
Proizv.-tekh.inform. no.4:74-80 '51. (MIRA 10:3)

1. Otdel tekhnicheskoy propagandy Ministerstva sel'skokhozyaystvennogo  
mashinostroyeniya. (Metals at low temperatures)

CHASHCHIN, M. A.

"New Method of High-Speed Thread Cutting on Lathes," Sel'khoz mashina, No. 3, 1952.

SONOLOV, S.; CHASHCHIN, M. A.

Metal Cutting

Work practice of speed-up lathe operator. *Sel'khoz mashina*, no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952 UNCLASSIFIED



CHASHCHIN, M. A.. Eng.

Metal Cutting

Making tools for cutting off sections and boring holes by using treated bits, Sel'khoz mashina No. 3, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

1. CHASHCHIN, M.A.
2. USSR (600)
4. Agricultural Machinery
7. Scientific-technological conference on problems in the design and production of agricultural machinery and implements, Sel'khoz mashina no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

CHASHCHIN, M.A., inzhener.

New types of a tool for processing farm machinery parts. Sel'khoz mashina  
no.10:28-29 0 '53. (MLRA 6:11)  
(Metal cutting)

CHASHCHIN, M.A., inzhener.

~~XXXXXXXXXX~~  
New types of tool steel; K1347 rapid-cutting steel. Sel'khozmaschina no.11:  
28-29 N '53. (MIRA 6:11)  
(Tool steel)

CHASHCHIN, M.A.

Scientific and technical conference on problems of agricultural  
machine building in Kharkov. Sel'khozmaschina no.4:3 of cover Ap '54.  
(MLRA 7:5)

(Agricultural machinery industry)

~~---MASHCHIN, M.A.~~

Work experience of the lathe operator. Sel'khozmaschina no.11:  
32 N '54. (MLRA 7:11)  
(Lathes)



**CHASHCHIN, M.A.**

**Die for clean forging on the hammer. Sel'khoz mashina no.5:31  
My '55. (MLRA 8:6)**

**(Dies(Metal working))**

**CHASHCHIN, M.A.**

**Truing polishing wheels without using diamonds. Sel'khoz mashina  
no.8:30-31 Ag'55. (MLRA 8:11)**

**(Grinding and polishing)**

**GHASHCHIN, M.A., inzhener.**

**Unfluted taps. Sel'khozmaschina no.11:32 N '55.  
(Taps and dies)**

**(MLRA 9:1)**

CHASHCHIN, M.A.

Special breach for cutting longitudinal lubricating grooves.  
Sel'khozmaschina no.3:30-31 Mr '56. (MIRA 9:7)  
(Breaching machines)

CHASHCHIN, M.A., insh.

Mechanized clamping of cutting tools. Trakt. i sel'khozmasb. 30  
no. 7:44 J1'60. (MIRA 13:10)

(Metal-cutting tools)

CHASHCHIN, M.A., inzh.

Cupola furnaces with water cooling. Trakt.i sel'khoz mash. 30  
no.10:41-42 0 '60. (MIRA 13:9)  
(Cupola furnaces)

CHASHCHIN, M.A.

Device for the mechanical loading of blanks into the oven. Trakt. 1  
sel'khozmasb. 31 no.3:46 Mr '61. (MIRA 14:3)  
(Furnaces--Technological innovations)

CHASHCHIN, M.A., inzh.

High-speed milling. Trakt. i sel'khozmasb. 31 no.7:43-44  
Jl '61. (MIRA 14:6)

(Metal cutting)

CHASHCHIN, M.A., inzh.

Efficient use of equipment materials. Trakt. i sel'khoz mash. 31  
no.12:37-39 D '61. (MIRA 15:1)  
(Machine shops--Equipment and supplies)

CHASHCHIN, M.V., starshiy leytenant; SEREGIN, Yu.V., leytenant

Warning device for radioactive contamination. Vest. protivovozd.  
obor. no.11:63 '61. (MIRA 16:10)

(Radioactivity--Instruments)

DANOVSKIY, Leonid Mechislavovich, dots., kand. tekhn. nauk; GROMOV,  
L.K., kand. tekhn. nauk, dotsent; ANTONOV, Yu.A., dots.; MIL'CHAKOV,  
K.V., inzh.; KOTYUKOV, I.A., kand. tekhn. nauk, dotsent; CHASHCHIN,  
N.P., inzh.; MIROSHIN, P.V., dotsent; IMOZEMTSEV, A.A., inzh.; PE-  
CHUGIN, D.A., dotsent; KOVALEV, N.F., inzh.; SINKIN, P.A., inzh.;  
POTOTSKIY, G.I., inzh., red.; USENKO, L.A., tekhn. red.

[Track work in sections with heavy freight traffic; from the  
experience of the Omsk and Tomsk Railroads] Putevye raboty na gru-  
zopriazhennykh uchastkakh; iz opyta Omskoi i Tomskoi dorog. Mo-  
skva, Vses. izdatel'sko-poligr. ob'edinenie M-va puti soobshche-  
niia, 1961. 102 p. (MIRA 14:7)

(Railroads—Maintenance and repair) (Railroads—Freight)

CHASHCHIN, S.M.

Change the time for inspecting tracks and switches. Put' i put.  
khoz. no. 8:43 Ag '58. (MIRA 11:8)

1. Zamestitel' nachal'nika distantsii puti stantsii Khust L'vovskoy  
dorogi.

(Railroads—Track)  
(Railroads--Switches)

CHASHCHIN, S.M.

Improving switches. Put' i put.khoz. 4 no.6:21 Je '60.  
(MIRA 13:7)

1. Zamestitel' nachal'nika distantzii puti, stantsiya Uzhgorod,  
L'vovskoy dorogi.

(Railroads--Switches)

CHASHCHIN, S.N., tekhnik

Point system for the evaluation of the maintenance of switches.  
Put' i put. khoz. 7 no.5:12 '63. (MIRA 16:7)

1. Uzhgorodskaya distantsiya puti L'vovskoy dorogi.  
(Railroads—Maintenance and repair)

CHASHCHIN, S. P.

"The forest marten of the Kama region of the Ural piedmont and its productive significance." Min Higher Education USSR. Molotov State U imeni A. M. Gor'kiy. Molotov, 1956. (DISSERTATION For the Degree of Candidate in BIOLOGICAL SCIENCE.)

Knizhnaya letopis'  
No 33, 1956, Moscow

CHASHCHIN, S.P.

Acclimatization of the Barguzin sable in the cis-Ural area.  
Uch. zap. Perm. gos. un. 13 no.1:93-98 '60. (MIRA 14:11)  
(Perm Province—Sables)  
(Animal introduction)

CHASHCHIN, S.P., kand. biolog. nauk

Distribution and preservation of river beavers and muskrats in  
Perm Province. Okht. prir. na Urale no.2:111-119 '61.

(MIRA 17:7)

CHASHCHIN, S.P., kand.biolog.nauk

Distribution and number of game mammals in Perm Province. Ochr.  
prir.na Urale no.3s69-80 '62. (MIRA 16s6)  
(Perm Province--Fur-bearing animals)  
(Perm Province--Deer)

L 1437-66 EWT(1)/EWT(m)/EWP(i)/T/EWP(t)/EWP(b)/EWA(h) IJP(c) JD  
ACCESSION NR: AP5019851

71 52B UR/0181/65/007/008/2370/2374

AUTHOR: Alferov, Zh. I.; Korol'kov, V. I.; Trukan, M. K.; Chashchin, S. P.

TITLE: Production and electric properties of n-type epitaxial gallium-phosphide films

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2370-2374

TOPIC TAGS: epitaxial film, thin film, gallium compound, p n junction

ABSTRACT: In view of the importance of epitaxial gallium phosphide films in the production of devices with ordinary and heterogeneous p-n junctions, the authors describe a procedure for obtaining such films and report the results of an investigation of some electric properties of p-type cadmium-doped epitaxial films. The single-crystal epitaxial layers (30--40  $\mu$  thick and 3 x 3 or 3 x 6 mm in area) were grown on single-crystal substrates of n-type gallium arsenide (300  $\mu$  thick), using gas-transport reactions in sealed quartz ampoules evacuated to  $10^{-5}$  mm Hg. The doping cadmium concentration ranged from  $10^{17}$  to  $10^{19}$   $\text{cm}^{-3}$ . The electric measurements were made in the temperature range 77--300K with a dc potentiometer method described by L. J. van der Pauw (Phil. Res. Rep. v. 13, 1, 1958), at voltages such that the shunting effect of the substrate did not come into play. Plots are presented of the temperature dependences of the conductivity, the carrier density, and

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ACCESSION NR: AP5019851

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the hole mobility, as well as of the Hall mobility vs. the carrier density. The results are interpreted as being due to the joint action of two scattering mechanisms, the impurity ions and the lattice vibrations, and are found to agree with the theory. The carrier mobility is found to be governed by the concentration of the doping impurities. "The authors thank A. S. Borghchevskiy and G. A. Kalyuzh-  
naya for supplying the high-purity <sup>44,55</sup> GaP platelets used to grow the films, O. V.  
Yemel'yanenko and D. Z. Garbuzov for valuable remarks, and V. M. Tuchkevich for  
 continuous interest in the work. <sup>44,55</sup> Orig. art. has: 5 figures and 1 formula. [02]

ASSOCIATION: Fiziko-tekhnicheskii institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR) 44.55

SUBMITTED: 26Feb65

ENCL: 00

SUB CODE: SS,EM

NO REF SOV: 003

OTHER: 006

ATD PRESS: 4100

Card 2/2

OP

CHASHCHIN, V.

Studying the causes and the prevention of industrial traumas.  
Mor. flot 23 no. 12:39-40 D '63. (MIRA 17:5)

1. Pomoshchnik nachal'nika Severnogo parokhodstva po tekhnike  
bezopasnosti.

L 26491-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: APG013070

SOURCE CODE: UR/0048/66/030/004/0637/0643

AUTHOR: Bundol, A.A.; Vishnyakov, A.V.; Galaktionov, S.S.; Guretskaya, E.I.; Zhukov, G.V.; Kamonskaya, S.A.; Kreytser, K.A.; Oranovskaya, T.V.; Chesochin, V.A.

ORG: None

TITLE: On the effect of the preparation conditions on the formation of traps in ZnS and ZnO base phosphors and the influence of predecomposition phenomena in solid solutions of  $Cu_2O$  in ZnS on their luminescence / Report, Fourteenth Conference on Luminescence Held in Riga, 16-23 September 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 4, 1966, 637-643

TOPIC TAGS: luminescence, crystal phosphor, zinc sulfide, current carrier, *luminophor*

ABSTRACT: Introduction of new experimental methods has increased rather than reduced the disagreement among different investigators regarding the structure of zinc sulfide luminophors. On the basis of previous investigations of glow curves and the polarity of the photocurrent carriers the authors showed that for the most part the discrepancies are due to inadequate control of the synthesis conditions, i.e., that the phosphors studied by different groups differed as regards structure owing to unintentional variations of the preparation conditions. Experiments show, for example, that truly self-activated ZnS exhibits only one glow curve peak, but that if the compound

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ACC NR: AP6013070

is exposed to oxygen, even at low pressure, during heating a second glow-curve peak appears and this is accompanied by change in the polarity of the photocurrent carriers (from n to p). Various experiments were carried out with pure, self-activated and impurity-activated ZnS and ZnO (including surface oxidized specimens) and several series of glow curves are reproduced. Data on the polarity of the current carriers in photoconductivity are also adduced. The curves and data demonstrate the effects of the synthesis conditions. A series of phosphors was prepared by heating different mixtures of ZnS with  $\text{Cu}_2\text{S}$  without flux at  $1000^\circ\text{C}$ , followed by reheating with quartz powder (to prevent caking) in sealed tubes at  $1050^\circ$ . These ZnS:Cu phosphors were studied immediately after preparation, after various heat treatments and after storage for some months at  $20^\circ$ . Their attributes differed considerably, again indicating the importance of synthesis and other conditions. It is pointed out that understanding of the peculiarities of the complicated chemical system constituted by copper-activated zinc sulfide luminophors requires further thorough investigation of the ZnS- $\text{Cu}_2\text{S}$ -Cu system. Orig. art. has: 1 formula and 6 figures.

SUB CODE: 20/

SUMM DATE: 00/

OPIC REF: 008/

OTH REF: 008

Card 2/3 CC

KACHALOV, A.I., kand.tekhn.nauk; BYKOVA, I.G.; CHASHCHIN, V.I.

Industrial method of the production of chlorine dioxide.  
Bum.prom. 34 no.8:14-16 Ag '59. (MIRA 12:12)  
(Chlorine oxide) (Woodpulp)

S/064/60/000/004/016/021/XX  
B013/B063

**AUTHORS:** Kachalov, A. I., Candidate of Chemical Sciences, Bykova,  
I. G., Balashov, L. N., Chashchin, V. I.

**TITLE:** Industrial Production of Sodium Chlorite

**PERIODICAL:** Khimicheskaya promyshlennost', 1960, No. 4, pp. 72-75

**TEXT:** The authors have worked out and tested a scheme for the continuous production of chlorine dioxide and sodium chlorite from sodium chlorate. Methanol and hydrogen peroxide are used for reduction in the first and second stage, respectively. Chlorine dioxide is obtained in three successively operating steel vessels (7), lined with diabase and having an attachment of Raschig rings. A mixture of a sodiumchlorate solution and 25-35% methanol is gradually heated as it passes through the reaction vessels (from 60 to 80°C). The residue from the last vessel is discharged. The resulting chlorine dioxide is diluted with air until an explosion-proof concentration is reached (not more than 10%). The diluted chlorine dioxide is then passed into a cascade of three absorbers of the bubbling

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Industrial Production of Sodium Chlorite

S/064/60/000/004/016/021/XX  
B013/B063

type (8). 30% hydrogen peroxide is passed into all three absorbers, and an alkaline solution with a concentration of 160 g/l is poured into the last absorber. Temperature is maintained at 0-2°C. Sodium-chlorite solutions with a content of 140-160 g/l NaClO<sub>2</sub>, 15-20 g/l NaCl, 30-40 g/l Na<sub>2</sub>CO<sub>3</sub>, and 0.5-1.0 g/l H<sub>2</sub>O<sub>2</sub> are obtained after absorption. Sodium chlorite is evaporated in vacuo between 70 and 80°C. Subsequently, the sodium-chlorite solution (concentration: 350-400 g/l) is passed through a crystallizer (14) with a temperature of -5 to -10°C and then filtered by a suction filter. The initial solution may be used again, while the sodium chlorite may be put at the consumer's disposal. Only an absolutely dry product can be stored in sealed containers for several years. Sodium chlorite can be dried either in a vacuum drying apparatus at 70-80°C or with the use of dry air in a boiling layer at room temperature. The last-mentioned method appears to be more promising. Dried commercial sodium chlorite contains 80-85% NaClO<sub>2</sub>, 10-12% NaCl, and 5-8% Na<sub>2</sub>CO<sub>3</sub>. The method suggested is undangerous and very convenient, provided the production process is carefully checked and technical specifications are strictly observed. The concentration of chlorine dioxide in the reaction gas was measured with an automatic photo-

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Industrial Production of Sodium Chlorite

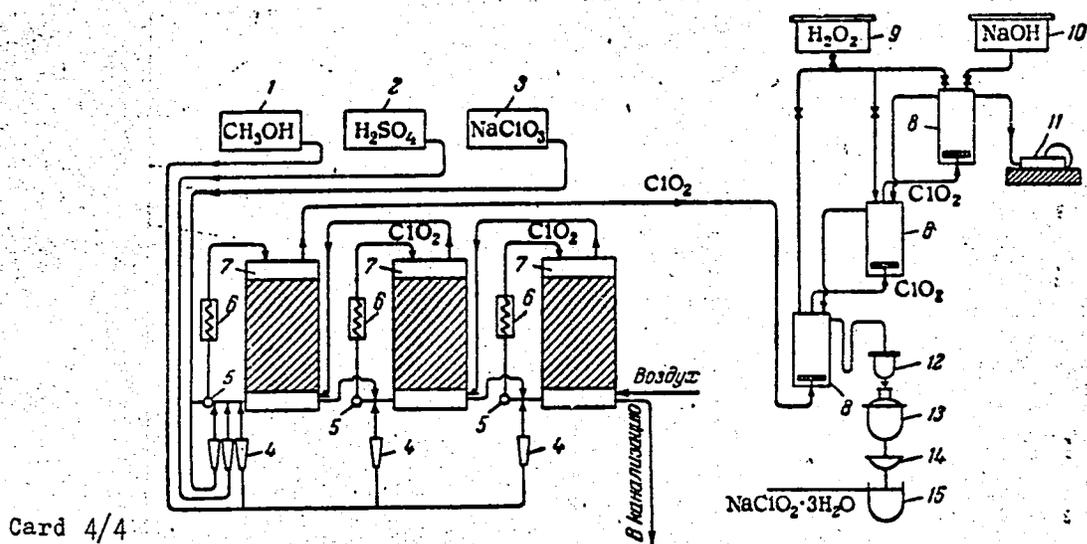
S/064/60/000/004/016/021/XX  
B013/B063

colorimeter provided with  $\phi KC-M$  (FKS-M) photoresistors. The process is automatically checked and controlled by measuring the redox potential with a couple of platinum (iridium)-calomel electrodes. The potentials were recorded by an ЭПД (EPD) potentiometer. The formation of sodium chlorite may be determined from the redox potential. The method of potentiometric checking is recommended for use in the automation of industrial plants producing sodium chlorite. An automatic photocolormeter is recommended for the determination of the concentration of chlorine dioxide. There are 3 figures, 1 table, and 8 non-Soviet references.

Legend to Fig. 1: 1, 2, 3, 9, 10: Measuring vessels; 4: rotameter; 5: pumps; 6: heat exchanger; 7: reaction vessels; 8: absorbers; 11: PMK-2 (RMK-2) vacuum pump; 12: alkali collector; 13: vacuum evaporator; 14: crystallizer; 15: suction filter.

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S/064/60/000/004/016/021/XX  
B013/B063



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KACHALOV, A.I., kand.khim.nauk; BYKOVA, I.G.; BAIASHOV, L.N.;  
GHASHCHIN, V.I.

Industrial method of preparation of sodium chlorite.  
Khim.prom. no.4:336-339 Je '60. (MIRA 13:8)  
(Sodium chlorite)

~~CHASHCHIN, N. A.~~; MIKHAYLOV, N.M., doktor tekhnicheskikh  
nauk, retsentsent; OKUN', M.M., redaktor; LIOZNOV, A.G., redaktor;  
MEDVEDEVA, L.Ya., tekhnicheskiy redaktor.

[Testing and adjusting driers for primary processing of bast fiber]  
Ispytaniya i naladka sushilok zavodov pervichnoi obrabotki lubiannykh  
volokon. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promysh-  
lennosti, 1957. 191 p. (MIRA 10:11)  
(Drying apparatus) (Bast)

~~CHASHCHIN, Vasil'y Timofeyevich~~; ANTIPOV, Andrey Vasil'yevich [deceased];  
LOBANOV, Viktor Ivanovich; SHARIKOV, I.M., retsenzent; GUSEVA, Ye.M.,  
redaktor; MEDVEDEV, L.Ya., tekhnicheskij redaktor

[Installing and servicing scutching and hackling devices in flax  
and hemp mills] Ustroistvo i oblushivanie mial'no-trepal'nykh i  
kudeleprigotovitel'nykh agregatov l'nozavodov i pen'kozavodov.  
Moskva, Gos.nauchno-tekhn.izd-vo M-va legkoi promyshl. SSSR, 1957.  
219 p. (MLRA 10:10)

(Flax) (Textile machinery)

1. CHASHCHIN, YA. T.
2. USSR (600)
4. Khabarovsk Territory - Bee Culture
7. Possibilities for bee culture in Khabarovsk Territory are not utilized, Pchelovdstvo, 30, no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ACC NR: AP6033493

SOURCE CODE: UR/0413/66/000/018/0115/0115

INVENTOR: Chashchin-Semenov, K. V.; Grigor'yev, V. G.; Nikolayev, V. M.; Shifrin, E. G.

ORG: none

TITLE: Axisymmetric, shaped nozzle for wind tunnels. Class 42, No. 186167

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 115

TOPIC TAGS: axisymmetric nozzle, wind tunnel, hypersonic wind tunnel, boundary layer suction

ABSTRACT: The proposed axisymmetric, shaped nozzle for wind tunnels with low density flow, such as hypersonic, is made of separate rings with adjustable slots between them for boundary layer suction. In order to simplify the design and to reduce it, the size of the nozzle is made with two female chambers. The chambers are insulated one from another by a movable partition and are connected by channels with the cavity of the working chamber. In addition to this, an ejector is mounted in the channel of the end chamber to increase the boundary layer suction.

SUB CODE: 21/4/SUBM DATE: 22Aug64  
Card 1/1 UDC: 620.178

CHASTACHINA, G. I.

26-23-22  
S/P/1/60/016/012/006/011  
2019/0096

Author: G. I. Chastachina, G. S. Malyukov, G. S. Sokolov, L. V. and G. S. Sokolov, G. I.  
Special Measurements With "Alfa" Research Installation.  
II. Directed Ion Currents

ABSTRACT: Special measurements with "Alfa" research installation, 1960, Vol. 20, No. 12, pp. 1433-1436

Summary: Directed ion currents in "Alfa" are measured by determining the spectral line shifts of ions caused by the Doppler effect. The measurements were carried out with a low-dispersion quartz spectrograph of the type ПД-9 (PDM-9), having a dispersion of 3.5 Å/mm. The spectra were taken in tangential direction and part of the line shift is shown in Fig. 3. The ion velocities calculated from the line shift and the Doppler effect are given in Table 1. As may be seen, the velocity of directed ion current does not exceed  $10^8$  cm/sec, and increases with increasing ion charge. There are

Card 1/5

Special Measurements With "Alfa" Research Installation. II. Directed Ion Currents

3 figures, 1 table, and 5 references: 2 Soviet, 2 US, and 1 Russian.

ASSOCIATION: Priborostroyeniye Institut AN SSSR (Institute of Physics and Technology of the AN USSR), Mashinostroyeniye Institut (Scientific Institute of Electrophysical Apparatus)

DATE: July 15, 1960

Card 1/5

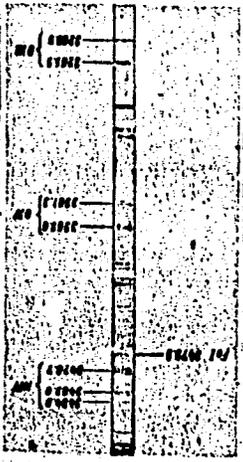
0769  
4/09/80/090/012/006/011  
8019/8056

$R_1$	$R_2$	$R_3$	$R_4$	$R_5$	$R_6$	$R_7$	$R_8$	$R_9$	$R_{10}$
CM	01-01	01-02	01-03	01-04	01-05	01-06	01-07	01-08	01-09
CM	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08	02-09
CM	03-01	03-02	03-03	03-04	03-05	03-06	03-07	03-08	03-09
CM	04-01	04-02	04-03	04-04	04-05	04-06	04-07	04-08	04-09
CM	05-01	05-02	05-03	05-04	05-05	05-06	05-07	05-08	05-09
CM	06-01	06-02	06-03	06-04	06-05	06-06	06-07	06-08	06-09
CM	07-01	07-02	07-03	07-04	07-05	07-06	07-07	07-08	07-09
CM	08-01	08-02	08-03	08-04	08-05	08-06	08-07	08-08	08-09
CM	09-01	09-02	09-03	09-04	09-05	09-06	09-07	09-08	09-09
CM	10-01	10-02	10-03	10-04	10-05	10-06	10-07	10-08	10-09

Legend to Table 1:  $R_1$  is cm,  $R_2$  is the capacitor voltage in kilovolts,  $R_3$  is the velocity of the ions in  $10^6$  cm/sec units,  $R_4$  is the root-mean-square error.

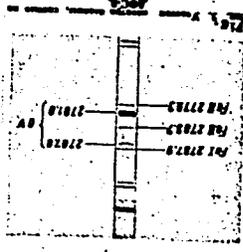
Card 3/5

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8019/8056



Card 4/5

0769  
4/09/80/090/012/006/011  
8019/8056



Card 5/5

ZAYDEL', A.N.; MALYSHEV, G.M.; MOSKALEV, Ye.I.; PTITSYNA, Ye.A.; SOKOLOVA,  
L.V.; CHASHCHINA, G.I.

Spectral investigations with the "Al'fa" installation. Part 2:  
Directed movement of ions. Zhur. tekhn. fiz. 30 no.12:1433-1436  
D '60. (MIRA 14:1)

1. Fiziko-tekhnicheskiy institut AN SSSR i Nauchno-issledovatel'skiy  
institut elektrofizicheskoy apparatury.  
(Ions) (Plasma (Ionized gases))

26719-66 EWT(m)/EWP(t)/ETI IJP(g) JD

ACC NR: AP6011573

SOURCE CODE: UR/0051/66/020/003/0511/0512

AUTHORS: Chashchina, G. I.; Shreyder, Ye. Ya.

62  
B

ORG: none

TITLE: Determination of the oscillator strengths of the resonance lines of xenon 1

SOURCE: Optika i spektroskopiya, v. 20, no. 3, 1966, 511-512

TOPIC TAGS: xenon, resonance line, oscillator strength, optic transition, pressure effect, light polarization

ABSTRACT: The authors have measured the oscillator strengths of two resonant lines of xenon, at 147.0 nm ( $^1S_0 \rightarrow ^3P_1$ ) and 129.6 nm ( $^1S_0 \rightarrow ^1P_1$ ). The oscillator strengths were measured by an absorption method with a discharge tube fed from a high frequency generator at 6 Mcs (Fig. 1). To determine the absorption, three measurements were made in succession. The first and third were measurements of the line brightness without an absorbing medium in the cuvette, and the second measurement of the line brightness with the cuvette filled with a mixture of helium and xenon. The values of the oscillator strengths for 147 and 129.6 nm

2

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UDC: 539.184:546.295

L 26719-66

ACC NR: AP6011573

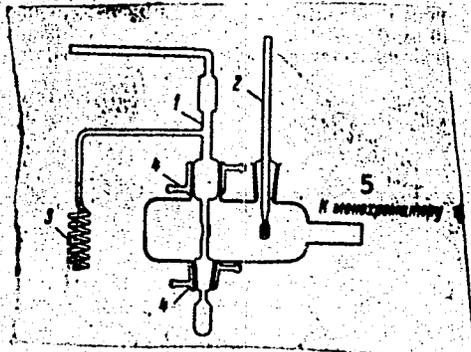


Fig. 1. Diagram of set up. 1 -- Discharge tube, 2 -- absorbing cuvette, 3 -- condensing coils, 4 -- water cooling, 5 -- to monochromator.

were found to be  $0.28 \pm 0.05$  and  $0.23 \pm 0.05$ , which is in good agreement with published data. A linear pressure dependence was observed for the absorption coefficient at the center of the line. The possible errors in measured oscillator strengths compared to the calculated ones is estimated at not more than 25%. From the measured oscillator strengths it is possible to determine the concentration of xenon in different mixtures of inert gases and also to measure the concentration of xenon atoms in a discharge, and by the same token the degree of ionization of the xenon. The minimum absolute concentration which can be observed by such a procedure is  $2 \times 10^{-12}$  g, amounting to a relative concentration of  $\sim 10^{-6}\%$ .

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2/3

L 26719-66

ACC NR: AP6011573

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A check on the sum rule for the polarizability by this method yielded a value  $32.4 \times 10^{-25} \text{ cm}^3$  for the polarizability in lieu of  $40.4 \times 10^{-25} \text{ cm}^3$  as published. This can be reconciled only by assuming that there exist other ionization lines of xenon, whose oscillator strengths make a contribution to the polarizability which is not accounted for by the present results. The authors thank A. N. Zaydel' for advice during the work. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 2G/ SUBM DATE: 19Jul65/ ORIG REF: 003/ OTH REF: 012

Card

3/3 *fv*

GHASHCHINA, Inker'ya Ivanovna; ZAV'YALOV, G.P., red.; ZLOBIN, M.V., tekhn.  
red.

[My experience in raising calves] Moi opyt vyrashchivaniia molodniaka.  
Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 7 p.      (MIRA 11:7)

1. Telyatnitsa Presnovskogo molochno-myasnogo sovkhosa, Presnovskogo  
rayona, Severo-Kazakhstanskoy oblasti.  
(Calves)

LOPUKHOV, N.D., kand. tekhn. nauk; YEGOROVA, Z.F., inzh.; CHASHCHINA, N.I.,  
inzh.

Study of the distribution of moisture in the body of soil cement  
pilings. Trudy Zap.-Sib. fil. ASIA no.7:157-160 '62.

(MIRA 18:2)

L 19568-65 EPT(d) IJP(c)/AFWL/ASD(a)-5

ACCESSION NR: AP5002078

S/0140/63/000/004/0165/0167

AUTHOR: Chashchina, N. S. (Gor'kiy)

TITLE: Theory of universal Dirichlet series

SOURCE: IVUZ. Matematika, no. 4, 1963, 165-167

TOPIC TAGS: complex variable

ABSTRACT: The Dirichlet series  $\sum_{n=1}^{\infty} a_n s^{-\lambda_n}$  is said to be universal if for any

function  $f(z) \in S$  (the collection of functions of the complex variable  $z$  which can be represented as series of polynomials) there exists in this series a subsequence of partial sums converging on  $E_f$  to  $f(z)$  and having  $E_f^*$  as its set of points of regularity. Here  $E_f$  is the set of points on which a function  $f(z) \in S$  is the limit of a sequence of polynomials, and  $E_f^*$  is the set of points of regularity, belonging to  $E_f$ , of this sequence of polynomials. Theorem 1. Any Dirichlet series

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 ACCESSION NR: AP5002078

$$\sum_{n=1}^{\infty} a_n e^{-\lambda_n z}, \quad (1)$$

where the sequence  $\{\lambda_n\}$  satisfies

$$\overline{\lim} \frac{n}{|\lambda_n|} = \infty, \quad (2)$$

is divided, in an infinite number of ways, into the sum of two universal Dirichlet series

$$\sum_{n=1}^{\infty} a_n e^{-\lambda_n z}; \quad \sum_{n=1}^{\infty} (a_n - a_n) e^{-\lambda_n z}, \quad (3)$$

**Theorem 2.** For any function  $f(z)$  defined on the bounded measurable set  $E$  of points of the  $z$  plane and measurable on  $E$ , a subsequence of partial sums, converging a.s. on  $E$  to  $f(z)$ , exists in the universal Dirichlet series; convergence is uniform on any set from some collection of closed sets  $F_n$  ( $n = 1, 2, \dots$ ) such that

$$F_1 \subset F_2 \subset \dots \subset F_n \subset \dots \text{ и } \mu(F_1 + F_2 + \dots + F_n + \dots) = \mu E. \quad (4)$$

The latter theorem is a property of universal power series due to A. I. Seleznev which remains valid for universal Dirichlet series. Orig. art. has: 5 formulas.

Cond 2/3

LEL'CHUK, Yu.L.; SOKOLOVICH, V.B.; SKRIPOVA, L.L.; LEL'CHUK, Kh.A.;  
CHASHCHINA, O.V.

Solubility of silver bromate in aqueous solutions of nitrates and  
sulfates of manganese, cobalt, nickel, and copper. Izv.TPI 111:51-54  
'61. (MIRA 16:9)

1. Predstavleno professorom doktorom khimicheskikh nauk A.G.  
Strombergom.

(Silver bromate) (Electrolyte solutions)

CHASHCHINA, O.V.; KATAYEV, G.A.

Ion-exchange dynamics of some heavy metal ions on the poly-  
styrene cation exchanger KU-2. Koll. zhur. 26 no.68730-733  
N-D '64 (MIRA 1881)

1. Khimicheskiy fakul'tet Tomskogo universiteta.

DROZHZHIN, I.V.; GORBATYUK, N.V.; CHASHCHINOV, A.V.

Radiometric method for determining the ash content of coal.  
Koks i ~~metall~~ no.7:17-18 J1 '61. (MIRA 14:9)

1. Novo-Uzlovakaya ugleobogatitel'naya fabrika (for Drozhzhin).
2. Konotopskiy zavod "Krasnyy metallist" (for Gorbatyuk, Chashchinov).

(Coal--Analysis) (Radiometer)

L 02258-67 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) GG/JD  
ACC NR: AP6015471 (N) SOURCE CODE: UR/0181/66/008/005/1511/1516

AUTHOR: Chashchinov, Yu. M.; Mokiyevskiy, V. A.

51  
50  
B

ORG: Leningrad Mining Institute im. G. V. Plekhanov (Leningradskiy Gornyy Institut)

TITLE: Twinning and morphology of epitaxial layers of GaAs on Ge

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1511-1516

TOPIC TAGS: twinning, epitaxial growing, crystal growing, germanium single crystal, gallium arsenide

ABSTRACT: This article presents some results of an investigation in the direction of oriented growth, surface faceting, and twinning of GaAs epitaxial layers in a complete heterogeneous system GaAs-Ga<sub>x</sub>-As<sub>y</sub> depending on the orientation of the Ge base layer. Epitaxial films obtained on semispherical base layers were investigated by means of a goniometer, photogoniometer, and chemical etching. The experiments performed showed that only one of the polar orientations (the sign of polarity of such directions coincides with the sign of orientation [111]) is a favorable orientation of the growth of GaAs from a gaseous phase. The faceting of the epitaxial film depends on the orientation of the base layer and on supersaturation. In the course of epitaxy of GaAs on Ge in the system discussed there is always the possibility of forced

Card 1/2

L 02258-67

ACC NR: AP6015471

21 /  
twinning; moreover, the probability of the onset of twin crystals is determined by the orientation of the base layer and increases with the following sequence: (111)/(100)/(110). Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 21Oct65/ ORIG REF: 004/ OTH REF: 006

Card 2/2 pb

CHASHECHKO, S.S.  
6690

SHELUKOV, I.I. and CHASHECHKO, S.S. Kontrol' Detaley v Protsesse Shlifovaniya.  
1., 1954. 8 s.s. Chert. 21 sm. (Vsesoyuz. o-vo Po Rasprostraneniyu Polit. and Nauch.  
Znaiy. Leningr. Dom Nauch.-Tekhn. Propagandy. Listok Novatora. No. 38 (277)).  
3.800 Eks. 20 k. - Avt. Ukazany v Kontse Teksta.--(55-122 ZH) 621.923: 658.562-52

SO: Knizhnaya Letopis 'No. 6, 1955

CHASHECHNIKOV, S. M.

CHASHECHNIKOV, S. M. --"The Theory of the Field of Hyperconoids,"  
Saratov State U imeni N. G. Chernyshevskiy, Saratov, 1956  
(Dissertations for the degree of Candidate in Physicomathematical Sciences.)

KNIEZHNYAYA LETOPIS  
No. 41, October 1956

AUTHOR: CHASHECHNIKOV, S.M. 20-5-10/54

TITLE: Field Theory of the Local Hypercones in  $X_n$  (Teoriya polya lokal'nykh giperkonusov v  $X_n$ )

PERIODICAL: Doklady Akademii Nauk, <sup>SSSR/</sup>1957, Vol.117, Nr 5, pp.765-768 (USSR)

ABSTRACT: The field theory of the local hypercones which is of interest for the application of differential geometry to the calculus of variations and partial differential equations was considered for the first time in the Veblen-Whitehead space  $X_n$  by Vagner [Ref. 1] in the case  $n = 3$ . Now the author considers the general case  $n \geq 4$ . Three theorems are given. 3 Soviet and 2 foreign references are quoted.

ASSOCIATION: State University imeni N.G. Chernyshevskiy, Saratov (Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo)

PRESENTED: By I.G. Petrovskiy, Academician, 11 June 1957

SUBMITTED: 8 October 1956

AVAILABLE: Library of Congress

Card 1/1

CHASITECHNIKOV, S. M.

10

PHASE I BOOK EXPLOITATION

SOV/5726

Moscow. Universitet.

Trudy seminarov po vektornomu i tenzornomu analizu s ikh prilozheniyami k geometrii, melhanike i fizike. vyp. 11. (Transactions of the Seminar on Vector and Tensor Analysis With Their Application in Geometry, Mechanics, and Physics. no. 11) [Moscow] 1961. 314 p. 2,500 copies printed.

Sponsoring Agency: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova.

Ed. (Title page): P. K. Rashevskiy, Professor; Ed.: V. A. Gukovskaya; Tech. Ed.: K. S. Chistyakova.

PURPOSE: This book is intended for theoretical physicists, mathematicians, and engineers.

COVERAGE: The book contains reports presented at the Seminar on Vector and Tensor Analysis (Moscow, 1961), includes an annotated

Card 1/5

Transactions of the Seminar (Cont.)

SOV/5726

bibliography of some reports presented at Seminar meetings over the period 1 July 1954 through 31 December 1957, and reviews the life and works of Yakov Semenovich Dubnov (1887-1957), senior member and cofounder (with V. F. Kagan and others) of the Seminar. Professor Dubnov's contributions to mathematics are reviewed in some detail and include his teaching of analytical and differential geometry with the application of vector analysis and works on problems in the algebra of affinors. Dubnov also wrote Osnovy vektornogo ischisleniya (Principles of Vector Calculus). studied the general theory of nets on surfaces, and worked on studies of different types of nets and invariant characteristics of nets on surfaces, the central projective and affine theory of curves and surfaces, and related subjects. A chronological bibliography of his publications is included. The biographical sketch of Professor Dubnov was written by V. V. Vagner and A. M. Lopshits. No personalities are mentioned. References accompany individual articles.

Card 2/5

Transactions of the Sem. .) SOV/5726

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a Family of Nets With Equal Chebyshev Vectors and a General  
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Card 3/5

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Card 4/5

Transactions of the Seminar (Cont.)	SOV/5726
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AVAILABLE: Library of Congress

Card 5/5

JAN/rsm/ec  
11-20-61

CHASHECHNIKOV, S.M.

Geometry of an  $m$ -surface in affine space. Dokl. AN SSSR 166  
no.3:558-561 Ja '66. (MIRA 19:1)

1. Kirovogradskiy gosudarstvennyy pedagogicheskiy institut  
in. A.S.Pushkina. Submitted May 22, 1965.

MAL'NEV, A.F.; KREMENCHUGSKIY, L.S.; BEREZKO, B.N.; SHEVTSOV, L.N.;  
BOGDEVICH, A.G.; KIRILLOV, G.M.; CHASHECHNIKOVA, I.T.;  
YARMOLENKO, N.A.; OFENGENDEN, R.G.; SERMAN, V.Z.;  
DALYUK, Yu.A.; BEREZIN, F.N.; KONENKO, L.D.; SHALEYKO, M.A.;  
SHEVCHENKO, Yu.S.; STOLYAROV, V.A.; KIRILLOV, G.M.; BOGDEVICH, S.F.;  
LYSENKO, V.T.; BRASHKIN, N.A.; SKRIPNIK, Yu.A.; GRESHCHENKO, Ye.V.;  
TUZ, R.M.; SERPILIN, K.L.; GAPCHENKO, L.M.

Abstracts of completed research works. Avtom. 1 prib. no.3:90-91  
Jl-S '62. (MIRA 16:2)

1. Institut fiziki AN UkrSSR (for all except Skripnik,  
Greshchenko, Tuz, Serpilin, Gapchenko). 2. Kiyevskiy  
politekhnicheskiy institut (for Skripnik, Greshchenko, Tuz,  
Serpilin, Gapchenko).

(Research)

MATUSOVA, A.P.; KUCHINA, Ye.N.; URES, Yu.A.; CHASHINA, G.S.

Use of corticosteroid hormones in the treatment of the postinfarct syndrome. Sov. med. 28 no.5:59-62 My '65. (MIRA 18:5)

1. Kafedra fakul'tetskoy terapii (zav. - prof. A.I.Gefer) na baze Klinicheskoy bol'nitsy No.5 (glavnyy vrach N.L.Pyatnitskiy) Gor'kovskogo meditsinskogo instituta.

GORBATYUK, N.V.; BORUKHOVICH, G.Z.; PARKHOMENKO, V.V.; CHASHINOV, A.V.

Rapid method of determining the ash content of coal from  
scattered  $\beta$ -radiation. Zav.lab. 26 no.9:1094-1096 '60.

(MIRA 13:9)

1. Zavod "Krasnyy metallist".  
(Coal--Analysis)

(Beta rays)

S/137/61/000/011/016/123  
AO60/A101

**AUTHORS:** Ber, Ya.M., Gunne, Kh.E., Chashinev, A.V., Yanushkovskiy, V.A.

**TITLE:** Automation of separate aggregates in dressing and agglomeration plants by means of radiometric instruments

**PERIODICAL:** Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 20, abstract 11V140 (V sb. "Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 3", Moscow, Gostoptekhizdat, 1961, 159 - 161)

**TEXT:** Results of the testing of radiometric instruments for the automation of bunker loading are cited. Two  $\text{Co}^{60}$  radiation sources are placed upon the inner wall of the bunker. The first one, controlling the upper level, may irradiate two sensors, one of which transmits a signal as to the state of the bunker to the dispatcher, and the second controls the position of the automatic rack. If the bunker is filled up to the upper level, then the source affixed to the bogie cannot irradiate the sensor, as result of which the bogie will not remain above the bunker. Now if the bunker is not filled up, then the irradiation of the cassette will lead to the stopping of the bogie. YPAH-2A (URAP-2a) from the Tallin KIP factory was used as the radiometric device. The radiation source was

Card 1/2

Automation of separate aggregates ...

S/137/61/000/011/016/123  
A060/A101

of comparatively low activity (4.5 mg-equiv. of Ra for each level). The sensitivity and response time of the scheme turned out to be entirely satisfactory for the automatic rack velocity of 0.3 m/sec. At the level of the operating platform near the bunker the radiation dosage was  $0.025 \mu$  R/sec, whereas at the level of the scale cars, under the bunker, there was practically no radiation.

A. Pokhvisnev

[Abstracter's note: Complete translation]

Card 2/2

OVSYANNIKOV, S.G.; ~~GHASHINSKIY, I.D.~~; SAFRONENKO, A.P., redaktor;  
LAZARCHIK, K., redaktor; STEPANOVA, N., tekhnicheskiy redaktor

[Manual for the collective farm stock breeder] Spravochnik kolxosnogo  
shivotnovoda. Minsk, Gos. izd-vo BSSR, 1956. 317 p. (MIRA 10:2)

1. Glavnyy zootekhnik Ministerstva sel'skogo khozyaystva BSSR (for  
Safronenko)  
(Stock and stockbreeding)

GOROSHNIKOV, B.I.; DZHUN', V.S.; KUKOLEV, G.V.; MARCHENKO, Ye.Ya.;  
SKOMAROV-KAYA, L.A.; CHASHKA, A.I.; SHCHUKAREVA, L.A.;  
YURK, Yu. u.; ~~doctor~~ ~~geol.-miner.~~ ~~nauk,~~ prof.; YUR'YEV,  
L.D.; SERDYUK, O.P., red.

[Granitoid rocks in the Azov Sea region and prospects for using them in the ceramic and glass industries] Granitoidnye porody Priazov'ia i perspektivy ikh ispol'zovaniia v keramicheskoi i stekol'nom proizvodstvakh. Pod red. Iu.Iu. Iurka. Kiev, Naukova dumka, 1964. 142 p. (MIRA 17:9)

1. Akademiya nauk URSR. Kiev. Instytut mineral'nykh resursiv.

MARCHENKO, Ye. Ya.; GONCHAROVA, Ye. I.; Primalni uchastiye: CHASHKA,  
A. I.; FOST, A. L.

Role of halogens in the formation and subsequent change of  
monazite of pneumatolytic-hydrothermal genesis. Dokl. AN  
SSSR 155 no. 2:349-352 Mr '64. (MIRA 17:5)

1. Institut mineral'nykh resursov, Simferepol'. Predstavleno  
akademikom V. S. Sobolevym.

1. VSIKIKH, A. S.; CHASHKIN, G. N.; SOSEDOV, S. S.

2. USSR (600)

4. Cattle Breeds - Kirghizistan

7. Improving the Ala Tau cattle breed on Kirghizistan state farms, Dost. sel'khoz., No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

CHASHKIN, I. N.

Chashkin, I. N. and Tikhomirov, V. I. "Breeding work with the Don horse in Kirgiziya," Trudy Kirgiz. nauch.-issled. in-ta shivotnovodstva, Issue 9, 1948, p. 3-33 -- Bibliog: 6 items

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

1. CHASHKIN, I. N.: PANCHENKO, S. D.
2. USSR (600]
4. Horse Training
5. Results of the trials of the New-Kirghiz horse breed with pack loads in high altitude conditions. Konevodstvo 22 no. 10 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.





GHASHKIN, I.N.

Kirghiz Research Institute for Animal Husbandry and Veterinary  
Medicine. Trudy VIV 23:354-355 '59. (MIRA 13:10)  
(Kirghisistan--Veterinary research)

CHASHKIN, M. I.

32616. CHASHKIN, M. I. Mashiny i oborudovniye dlya ukhoda za pochvoy v polezashchitnykh lesnykh nasazhdeniyakh. les i step', 1949, No 3, s. 56-60

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